

USED MOSTLY INDUSTRIAL

Neptune® T-10®

Sizes: 1½" and 2"

Features & Benefits

Roll-Sealed Register

- Magnetic drive, low torque registration ensures accuracy
- Impact-resistant, flat, glass lens for legibility
- 1:1 Ratio, low flow indicator detects leaks
- Bayonet mount allows in-line serviceability
- Tamperproof seal pin deters theft
- Date of manufacture, size, and model stamped on dial face

Cast Bronze Maincase

- Sturdy, durable, corrosion resistant
- Resists internal pressure stresses and external damage
- Handles in-line piping stress
- Electrical grounding continuity
- Residual value

Nutating Disc Measuring Chamber

- Widest effective flow range for greater utility revenue
- Excellent low flow accuracy
- Corrosion resistant
- Floating chamber design is unaffected by meter position or in-line piping stress
- Three-piece chamber for easy serviceability

Systems Compatibility

- Adaptability to all Neptune Systems provides flexibility

Performance

Every Neptune T-10 water meter meets or exceeds the latest AWWA Standard, C700-90. Its nutating disc, positive displacement principle is time proven for accuracy and dependability since 1892, ensuring maximum utility revenue.

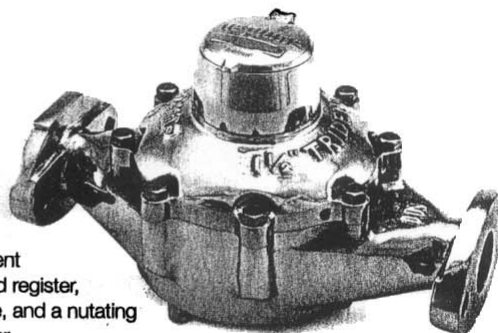
Construction

The Neptune T-10 water meter consists of three major component assemblies: a roll-sealed register, a cast bronze maincase, and a nutating disc measuring chamber.

The direct-reading register assembly is roll-sealed, eliminating lens fogging, and is coupled magnetically to the measuring chamber. The register contains a low flow indicator for leak detection, and for reading convenience, can be mounted on the meter in any of four positions. Also available are remote reading registers for the Neptune ARB® (Automatic Reading and Billing) Systems, ProRead™ ARB, Pulsar-RM visual remote system, and TRICON-S®, TRICON-E2®, and FloSearch™ systems. The register is secured to the maincase via a tamperproof seal pin.

The corrosion-resistant cast bronze maincase will withstand most service conditions: internal water pressure, rough handling, and in-line piping stress.

The innovative floating chamber design of the nutating disc measuring element protects the chamber from frost damage while the unique chamber seal extends the low flow accuracy by sealing the chamber outlet port to the maincase outlet port. The nutating disc measuring element utilizes corrosion-resistant materials throughout and a thrust roller to minimize wear.



Warranty & Maintenance

Neptune T-10 water meters are warranted by Schlumberger for performance, materials, and workmanship. Schlumberger further offers an optional post-warranty maintenance program for extended service life.

When desired, owner maintenance is easily accomplished either by unitized replacement of major components or by parts repair of an individual component.

Guaranteed Systems Compatibility

All Neptune T-10 meters are guaranteed adaptable to our Pulser-RM, ARB, ProRead ARB, CMR, TRICON-S, TRICON-E2, FloSearch, NMR, and ADVANCE® Systems without removing the meter from service.

Specifications

Application

Cold water measurement of flow in one direction.

Maximum Operating Pressure

150 psi (1034 kPa)

Register

Direct reading, center sweep, roll-sealed, magnetic drive with low flow indicator.

Measuring Chamber

Nutating disc, synthetic polymer

Options

Sizes

1½" Flanged or screw end

2" Flanged or screw end

Units of Measure

U.S. Gallons

Imperial Gallons

Cubic Feet

Cubic Metres

Register Types

Direct Reading:

Bronze box and cover (standard)

Remote Reading:

Pulser-RM

ARB, ProRead ARB

TRICON-S

TRICON-E2

Reclaim

Measuring Chamber

Synthetic Polymer

Companion Flanges

Cast Iron or Bronze

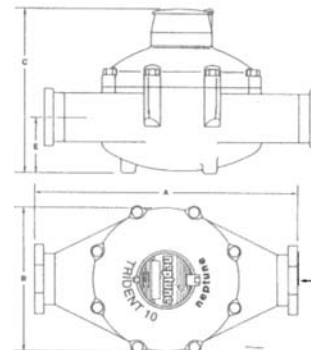
Operating Characteristics

Meter Size	Normal Operating Range @100% Accuracy (±1.5%)	AWWA Standard	Low Flow @95% Accuracy
1½"	2 to 100 US gpm 0.46 to 22.73 m³/h	5 to 100 US gpm 1.1 to 22.7 m³/h	¾ US gpm 0.17 m³/h
2"	2½ to 160 US gpm .57 to 36.36 m³/h	8 to 160 US gpm 1.8 to 36.3 m³/h	1 US gpm 0.23 m³/h

Registration

Registration (per sweep hand revolution):		
	1½"	2"
100 US Gallons	✓	✓
100 Imperial Gallons	✓	✓
10 Cubic Feet	✓	✓
1 Cubic Metre	✓	✓
0.1 Cubic Metre	✓	✓

Register Capacity (6-wheel odometer):		
	1½"	2"
100,000,000 US Gallons	✓	✓
100,000,000 Imperial Gallons	✓	✓
10,000,000 Cubic Feet	✓	✓
1,000,000 Cubic Metres	✓	✓
100,000 Cubic Metres	✓	✓

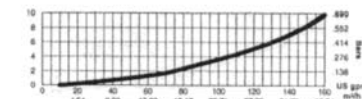
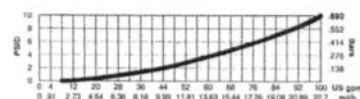
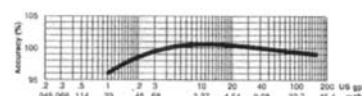
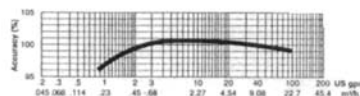


Dimensions

Meter Size	A		B		C		D		E		Approx. Weight lbs/kg
	In/mm	In/mm	Std In/mm	ARB In/mm	Pul In/mm	Threads per inch	Thread Type	In/mm	In/mm		
1½"	12⅝	8⅞	8⅞	8⅞	9⅝	11½	1½" NPT	2⅞	65	31	14.1
Screw End	321	205	206	217	252	—	—	65	65	35	15.9
1½"	13	8⅞	8⅞	8⅞	9⅝	—	—	2⅞	65	40	18.1
Flanged End	330	205	206	217	252	—	—	65	65	40	18.1
2"	15¼	9⅞	9⅞	9⅞	11⅞	11½	2" NPT	3⅞	79	44	20.0
Screw End	387	240	237	248	283	—	—	79	79	44	20.0
2"	17	9⅞	9⅞	9⅞	11⅞	—	—	3⅞	79	44	20.0
Flanged End	432	240	237	248	283	—	—	79	79	44	20.0

1½"

2"



For more free information, call Schlumberger Water Division, FAX-BACK: 1-800-823-4417 and select the document you wish to order.

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TURBO-METERS

QUICK REFERENCE GUIDE

Nominal Size	Model Number	Normal Operating Range (GPM)	Initial Sensitivity ^④ (GPM)	Low Flow Accuracy @ 95% (GPM)	Maximum Continuous Flow (GPM)	Extended Intermittent Flow (GPM)	(PSI) Head Loss % Maximum Flow
1-1/2"	W-120C	4-120	1-2	3	120 ^①	160	5.6
1-1/2"	W-120DR	4-120	1-2	3	120 ^①	160	13.5 ^②
1-1/2"	W-120DRS	4-120	1-2	3	120 ^①	160	15.4 ^②
2"	W-160DR	4-160	1-2	3	160	200	5.6
2"	W-160DRS	4-160	1-2	3	160	200	6.5
3"	W-350DR	5-350	2-3	4	350	450	5.9
3"	W-350DRS	5-350	2-3	4	350	450	7.1
3"	125-W Fire Hydrant	10-300	---	---	300	400	8.0
4"	W-1000DR	15-1,000	4-5	10	1,000	1,250	5.0
4"	W-1000DRS	15-1,000	4-5	10	1,000	1,250	6.3
6"	W-2000DR	30-2,000	6-7	20	2,000	2,500	6.5
6"	W-2000DRSL	30-2,000	6-7	20	2,000	2,500	3.8
8"	W-3500DR	35-3,500	7-8	30	3,500	4,400	8.4
10"	W-5500DR	55-5,500	8-9	35	5,500	7,000	6.2
16"	W-10,000DR	250-10,000	25-50	200	10,000	12,500	5.3
4"	W-1000DRFS	15-1,000	4-5	10	1,000	1,250	6.3
6"	W-2000DRFS	30-2,000	6-7	20	2,000	2,500	6.7
8"	W-3500DRFS	35-3,500	7-8	30	3,500	4,400	8.5
10"	W-5500DRFS	55-5,500	8-9	35	5,500	7,000	6.9
4"	Fireline Meter	5-1,000	1/2-3/4 ^③	1-1/2-2 ^③	1,000	1,250	8.5
6"	Fireline Meter	8-2,000	3/4-2 ^③	2-3 ^③	2,000	2,500	9.4
8"	Fireline Meter	4-3,500	3/4-2 ^③	2-3 ^③	3,500	4,400	12.9
10"	Fireline Meter	4-5,500	3/4-2 ^③	2-3 ^③	5,500	7,000	10.9
4"	Compact Fireline	4-1,000	1-2	3	1,000	1,250	8.4
6"	Compact Fireline	4-2,000	1-2	3	2,000	2,500	12.8
8"	Compact Fireline	4-3,500	1-2	3	3,500	4,400	12.9
10"	Compact Fireline	4-5,500	1-2	3	5,500	7,000	12.4

Notes:

① W-120 & W-160 measuring chambers are the same and interchangeable.

② W-120 DR & DRS have built-in high flow restrictors.

③ Ranges depict optional bypass meter types and sizes.

④ Initial sensitivity based on typical performance history; no warranty or guarantee claimed at listed flow rates.

IMVENSUS METERS CO
INDUSTRIAL METERS

COMPOUND METERS**QUICK REFERENCE GUIDE**

Nominal Size/Model	(GPM) Normal Operating Range	Low Flow (GPM) Accuracy @ 95%	AWWA Maximum Continuous Flow (GPM)	Maximum Intermittent Flow (GPM)	Minimum Accuracy Crossover	(PSI) Headloss @ Maximum Intermittent Flow
2" SRH	2-160	1/4	80	160	95%	5.0
3" SRH	4-320	1/2	160	320	95%	5.3
4" SRH	6-500	3/4	250	500	95%	3.2
6" SRH	10-1,000	1-1/2	500	1,000	95%	13.0
8" Manifold	16-1,600	2	800	1,600	95%	13.2

For more information, refer to data sheet W-932 or W-963 or latest version.
You may contact your local Territory Manager for further assistance.

INVENSUS METER CO

INDUSTRIAL METERS

HOUSE METERS

Neptune® T-10®

Sizes: 5/8", 3/4", and 1"

Features & Benefits

Roll-Sealed Register

- Magnetic drive, low torque registration ensures accuracy
- Impact-resistant register design with flat glass for legibility
- 1:1 ratio, low flow indicator detects leaks
- Bayonet mount allows in-line serviceability
- Tamperproof seal pin deters theft
- Date of manufacture, size, and model stamped on dial face

Cast Bronze Maincase

- Sturdy, durable, corrosion resistant
- Resists internal pressure stresses and external damage
- Handles in-line piping variations and stresses
- Residual value

Nutating Disc Measuring Chamber

- Positive displacement
- Widest effective flow range for greater utility revenue
- Extended low flow accuracy
- Corrosion resistant
- Floating chamber design is unaffected by meter position of in-line piping stresses

Systems Compatibility

- Adaptability to all Schlumberger systems for flexibility

Performance

Every Neptune T-10 water meter meets or exceeds the latest AWWA Standard, C700-90. Its nutating disc, positive displacement principle is time proven for accuracy and dependability since 1892, ensuring maximum utility revenue.

Construction

The Neptune T-10 water meter consists of three major assemblies:

a roll-sealed register, a cast bronze maincase, and a nutating disc measuring chamber.

The roll-sealed register eliminates lens fogging, uses naturally lubricated molded gears, and contains a low flow indicator for leak detection. For reading convenience, the register can be mounted in one of four positions on the meter. All T-10 water meters can accommodate standard or remote reading registers for the Neptune ARB® (Automatic Reading and Billing) System, ProRead™ ARB, Pulser-RM visual remote system, TRICON-S®, TRICON-E2® and FloSearch™ Systems.

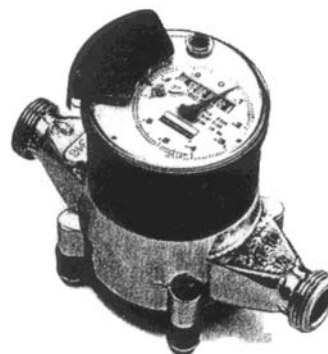
The corrosion-resistant cast bronze maincase will withstand most service conditions: internal water pressure, rough handling, and in-line piping stress. For frost protection, synthetic polymer or cast iron bottom caps are available.

The innovative floating chamber design of the nutating disc measuring element protects the chamber from frost damage while the unique chamber seal extends the low flow accuracy by sealing the chamber outlet port to the maincase outlet port. The nutating disc measuring element utilizes corrosion-resistant materials throughout and a thrust roller to minimize wear.

Warranty & Maintenance

Neptune T-10 water meters are warranted by Schlumberger for performance, materials, and workmanship. Schlumberger further offers an optional post-warranty factory "Revenue Asset Maintenance" (RAM) program for extended service life.

When desired, owner maintenance is easily accomplished either by unitized replacement of major components or by repair of an individual component's parts.



M e t e r s

Guaranteed Systems Compatibility

All Neptune T-10 meters are guaranteed adaptable to our Pulsar-RM, ARB, ProRead ARB, CMR, TRICON-S, TRICON-E2, FloSearch, NMR, and ADVANCE® Systems without removing the meter from service.

Specifications**Applications**

Cold water measurement of flow in one direction

Maximum Operating Pressure
150 psi (1034 kPa)

Register

Direct reading, center sweep, roll-sealed, magnetic drive with low flow indicator

Measuring Chamber

Nutating disc, synthetic polymer

Options**Sizes**

5/8", 5/8" x 3/4"
3/4", 3/4" SL, 3/4" x 1"
1", 1" x 1 1/4"

Units of Measure

U.S. Gallons Cubic Feet
Imperial Gallons Cubic Metres

Register Types**Direct Reading:**

Synthetic polymer box and cover
Bronze box and cover

Remote Reading:

ARB, ProRead ARB
Pulsar-RM
TRICON-S
TRICON-E2

Reclaim**Bottom Caps**

Synthetic Polymer (5/8" only)

Cast Iron

Bronze

Connections

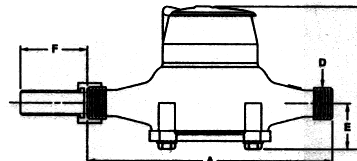
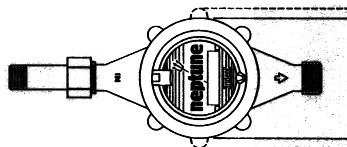
Bronze, straight or bent

Operating Characteristics

Meter Size	Normal Operating Range @100% Accuracy (±1.5%)	AWWA Standard	Low Flow @95% Accuracy
5/8"	1/2 to 20 U.S. gpm 0.11 to 4.55 m³/h	1 to 20 U.S. gpm 0.23 to 4.5 m³/h	1/8 U.S. gpm 0.03 m³/h
3/4"	3/4 to 30 U.S. gpm 0.17 to 6.82 m³/h	2 to 30 U.S. gpm 0.45 to 6.8 m³/h	1/4 U.S. gpm 0.06 m³/h
1"	1 to 50 U.S. gpm 0.23 to 11.36 m³/h	3 to 50 U.S. gpm 0.68 to 11.4 m³/h	3/8 U.S. gpm 0.09 m³/h

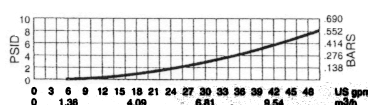
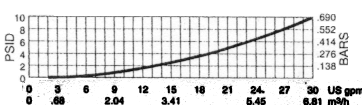
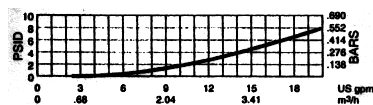
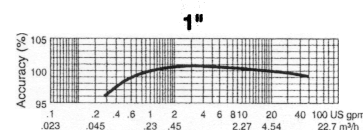
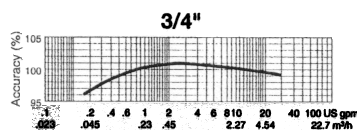
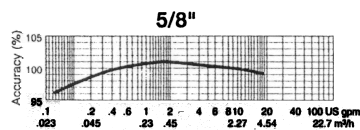
Dimensions

Meter Size	A		C			D		E		F	Approx. Weight lbs/kg
	in/mm	in/mm	Std. in/mm	ARB in/mm	Pul in/mm	Threads per inch	OD in/mm	in/mm	in/mm		
5/8"	7 1/2 191	3 3/8 92	4 7/8 124	5 3/8 137	6 3/4 171	14	1.030 26	1 1/8 41	2 1/2 64	3 3/4 1.7	
5/8" x 3/4"	7 1/2 191	3 3/8 92	4 7/8 124	5 3/8 137	6 3/4 171	11 1/2	1.290 33	1 1/8 41	2 5/8 67	4 1.8	
3/4"	9 229	4 3/8 111	5 1/2 140	5 13/16 148	7 3/8 187	11 1/2	1.290 33	1 7/8 48	2 5/8 67	6 2.7	
3/4" SL	7 1/2 191	4 3/8 111	5 1/2 140	5 13/16 148	7 3/8 187	11 1/2	1.290 33	1 7/8 48	2 5/8 67	5 1/2 2.5	
3/4" x 1"	9 229	4 3/8 111	5 1/2 140	5 13/16 148	7 3/8 187	11 1/2	1.626 41	1 7/8 48	2 3/4 70	6 1/2 2.9	
1"	10 3/4 273	6 1/2 165	6 3/8 162	6 5/8 168	8 3/16 208	11 1/2	1.626 41	2 1/8 54	2 3/4 70	9 3/4 4.4	
1" x 1 1/4"	10 3/4 273	6 1/2 165	6 3/8 162	6 5/8 168	8 3/16 208	11 1/2	1.865 47	2 1/8 54	2 13/16 71	10 1/4 4.6	

**Registration**

Registration (per sweep hand revolution):		
	5/8"	3/4" & 1"
10 U.S. Gallons	✓	✓
10 Imperial Gallons	✓	✓
1 Cubic Foot	✓	✓
0.1 Cubic Metre	✓	✓
0.01 Cubic Metre	✓	✓

Registration Capacity (6-wheel odometer):		
	5/8"	3/4" & 1"
10,000,000 U.S. Gallons	✓	✓
10,000,000 Imperial Gallons	✓	✓
1,000,000 Cubic Feet	✓	✓
100,000 Cubic Metres	✓	✓
10,000 Cubic Metres	✓	✓



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